

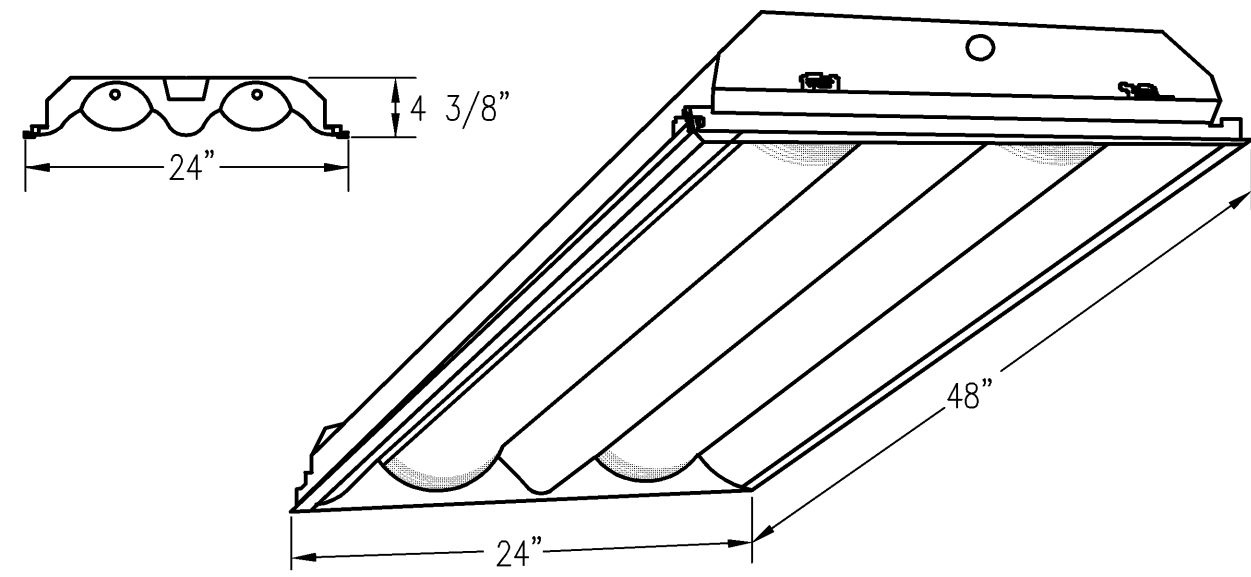
LUMINAIRE REQUIREMENTS

- HOUSING SHALL BE ONE PIECE DIE-FORMED CODE GAUGE STEEL, PHOSPHATE TREATED FOR RUST PREVENTION AND PAINT ADHESION. ENDS SHALL BE SECURED WITH SCREWS OR WELDED..
- HOUSING SHALL BE PAINTED WITH MINIMUM 90% REFLECTANCE BAKED WHITE ENAMEL.
- BALLAST SHALL BE ELECTRONIC WITH THD <20%. HIGH POWER FACTOR ($\geq .95$) RAPID START CLASS P WITH SOUND RATING OF "A". PROVIDE BALLAST WITH "FINGER SAFE" DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.73(G). ELECTRONIC 100%-50% STEP DIMMING TYPE.
- PROVIDE MOUNTING TRIM AND HARDWARE COMPATIBLE WITH CEILING MATERIAL.
- MAXIMUM DEPTH OF HOUSING SHALL BE 4-3/8".
- REFLECTORS SHALL BE MADE FROM ALUMINUM, HIGH REFLECTANCE/LOW GLARE, 95% MINIMUM SPECULAR FINISH. LENSES ARE HIGH IMPACT UV STABILIZED ACRYLIC.
- WHITE ACRYLIC ENCLOSURE SHALL HINGE DOWN AS AN ASSEMBLY FOR ACCESS TO LAMPS AND BALLASTS FROM BELOW FOR TOOL-LESS ACCESS TO LAMPS AND BALLASTS. T HINGES AND GUIDE POST SPRING LOADED LATCHES ALLOWS ACCESS WITHOUT TOOLS.
- FIXTURE SHALL BE UL LISTED.

DETAIL BASED ON DAY-BRITE LIGHTING, "ATTUNE" SERIES

TYPE	LAMP #	LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
	2	17W T8 HI LUMEN	43	UNIVERSAL	RECESSED, CEILING

2'X2' RECESSED HIGH EFFICIENCY TROFFER



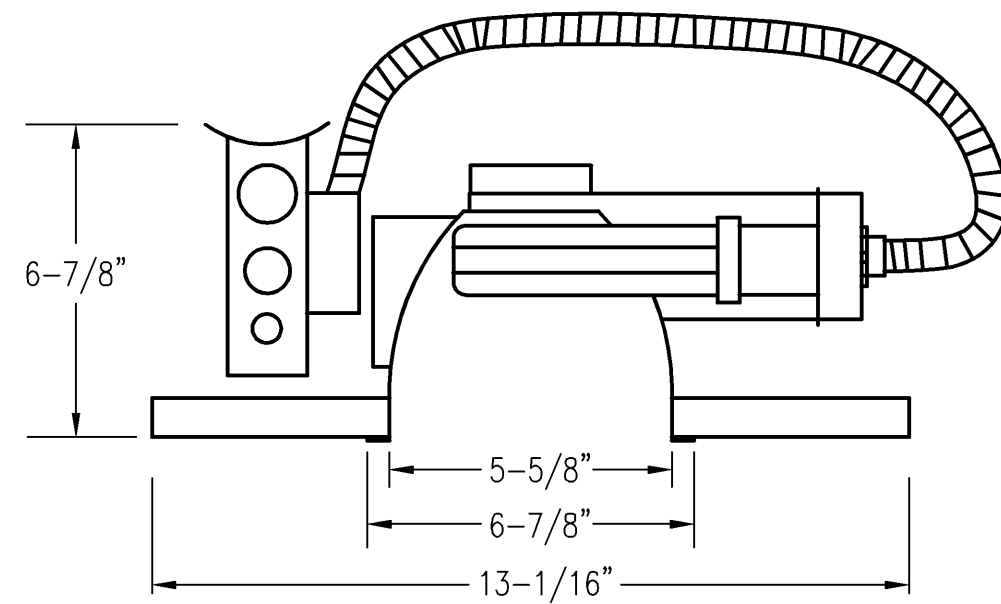
LUMINAIRE REQUIREMENTS

- HOUSING SHALL BE ONE PIECE DIE-FORMED CODE GAUGE STEEL, PHOSPHATE TREATED FOR RUST PREVENTION AND PAINT ADHESION. ENDS SHALL BE SECURED WITH SCREWS OR WELDED..
- HOUSING SHALL BE PAINTED WITH MINIMUM 95% REFLECTANCE BAKED WHITE ENAMEL.
- BALLAST SHALL BE ELECTRONIC HIGH BALLAST FACTOR (1.15) WITH THD <20%. HIGH POWER FACTOR ($\geq .95$) PROGRAMMED START CLASS P WITH SOUND RATING OF "A". PROVIDE BALLAST WITH "FINGER SAFE" DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.73(G). ELECTRONIC 100%-50% STEP DIMMING TYPE.
- PROVIDE MOUNTING TRIM AND HARDWARE COMPATIBLE WITH CEILING MATERIAL.
- MAXIMUM DEPTH OF HOUSING SHALL BE 4-3/8".
- REFLECTORS SHALL BE MADE FROM ALUMINUM, HIGH REFLECTANCE/LOW GLARE, WITH 95% MINIMUM SPECULAR FINISH. LENSES ARE HIGH IMPACT UV STABILIZED ACRYLIC.
- WHITE ACRYLIC ENCLOSURE SHALL HINGE DOWN AS AN ASSEMBLY FOR ACCESS TO LAMPS AND BALLASTS FROM BELOW FOR TOOL-LESS ACCESS TO LAMPS AND BALLASTS. T HINGES AND GUIDE POST SPRING LOADED LATCHES ALLOWS ACCESS WITHOUT TOOLS.
- FIXTURE SHALL BE UL LISTED.

DETAIL BASED ON DAY-BRITE LIGHTING, "ATTUNE" SERIES

TYPE	LAMP #	LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
	2	32W T8 HI LUMEN	77	120/277 UNIVERSAL	RECESSED, CEILING

2'X4' RECESSED HIGH EFFICIENCY TROFFER



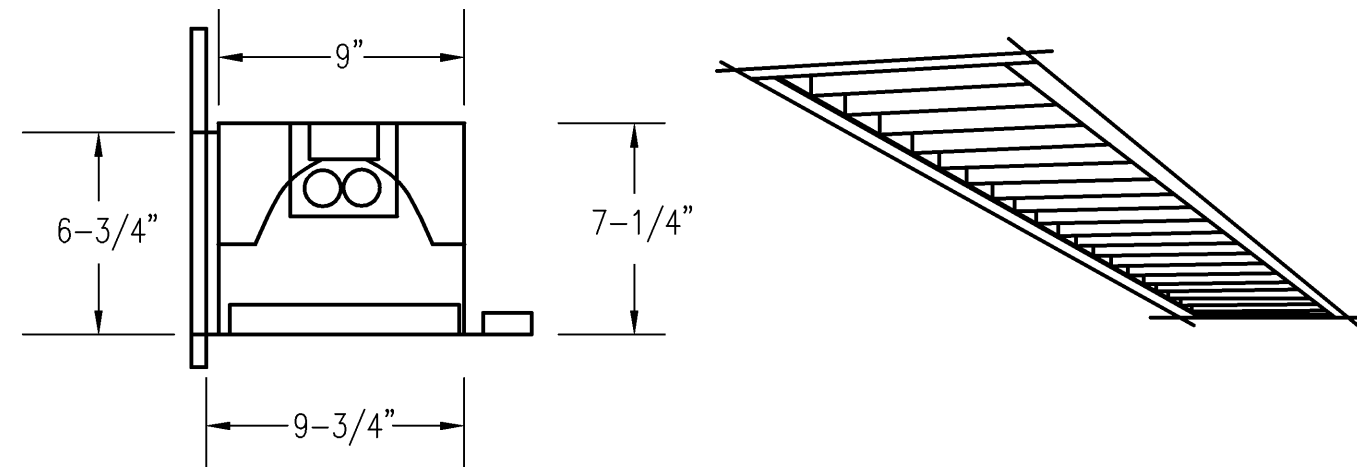
LUMINAIRE REQUIREMENTS

- HOUSING-CONSTRUCTED OF GALVANIZED HEAVY GAUGE STEEL WITH ADJUSTABLE YOKE TO RETAIN SPECULAR REFLECTOR. SOCKET HOUSING MADE OF DIE FORMED GALVANIZED STEEL
- MOUNTING- BUTTERFLY BRACKETS ACCEPT 27" OR 52" C-CHANNELS, NAILER BAR OR EMT CONDUIT. ACCOMMODATES CEILINGS UP TO 2" THICK
- ELECTRICAL COMPONENTS-INTEGRAL MULTI-LAMP BALLASTS ARE HPF ELECTRONIC WITH LOW HARMONIC DISTORTION (<20%). BALLASTS ARE THERMALLY PROTECTED AND HAVE A CLASS "A" SOUND RATING. BALLASTS ARE CLASS P, SOLID STATE ELECTRONIC, UNIVERSAL VOLTAGE (120V THRU 277V) WITH END-OF-LIFE SHUTDOWN PROTECTION.
- UL LISTED FOR DAMP LOCATIONS.
- FINISH-HOUSING FINISH SHALL BE SUPER WHITE (SW) THERMOSET POLYESTER POWDER COAT.

DETAIL BASED ON LSI "206HCFL" SERIES

TYPE	LAMP #	LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
	1	26W/CFL	29	120/277	RECESSED CEILING

OPEN HORIZONTAL FLUORESCENT DOWNLIGHT



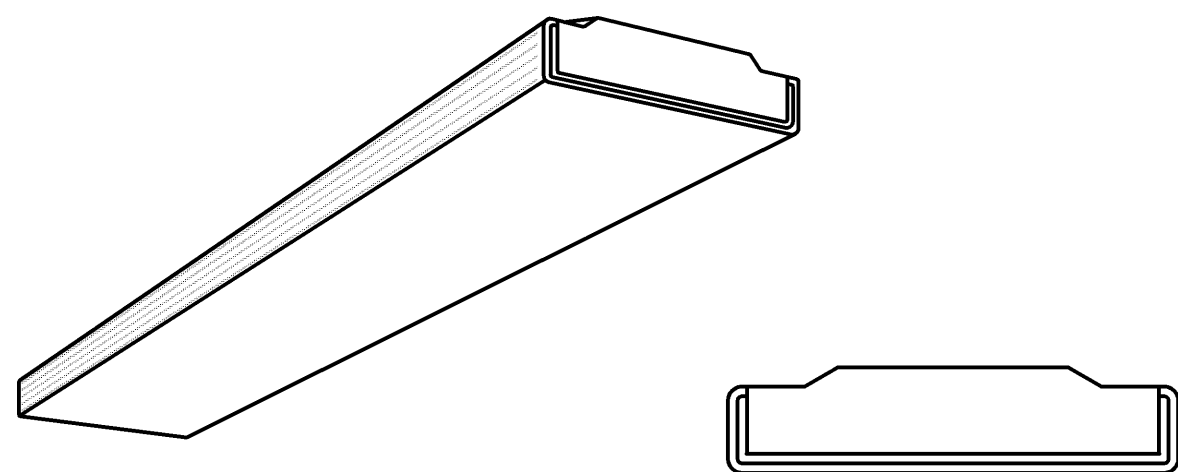
LUMINAIRE REQUIREMENTS

- THE 20 GAUGE STEEL HOUSING SHALL BE AN ASSEMBLY OF 4 FOOT LENGTHS PLUS A TELESOPING SECTION WITH ALL REQUIRED EXTENSION HARDWARE. EXACT LENGTH OF ASSEMBLY SHALL BE FIELD VERIFIED.
- MOUNTING- FIXTURE IS RECESS MOUNTED IN EITHER EXPOSED T-BAR OR HARD CEILING APPLICATIONS.
- LAMPS ARE STAGGERED TWO LAMP T8'S AS INDICATED ON DRAWINGS
- LOUVER: ALUMINUM BLADBALLAST SHALL BE INTEGRAL MULTI-LAMP, HPF ELECTRONIC, THERMALLY PROTECTED AND HAVE A CLASS "A" SOUND RATING. PROVIDE BALLAST WITH "FINGER SAFE" DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.73(G).
- UL LISTED FOR DAMP LOCATIONS.
- FINISH-HOUSING FINISH SHALL BE WHITE ENAMEL (BWE)

DETAIL BASED ON PRUDENTIAL LIGHTING, "P-801" SERIES

TYPE	LAMP #	LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
	2	32W T8	60	120/277	RECESSED, CEILING

RECESSED LOUVERED FLUORESCENT FIXTURE



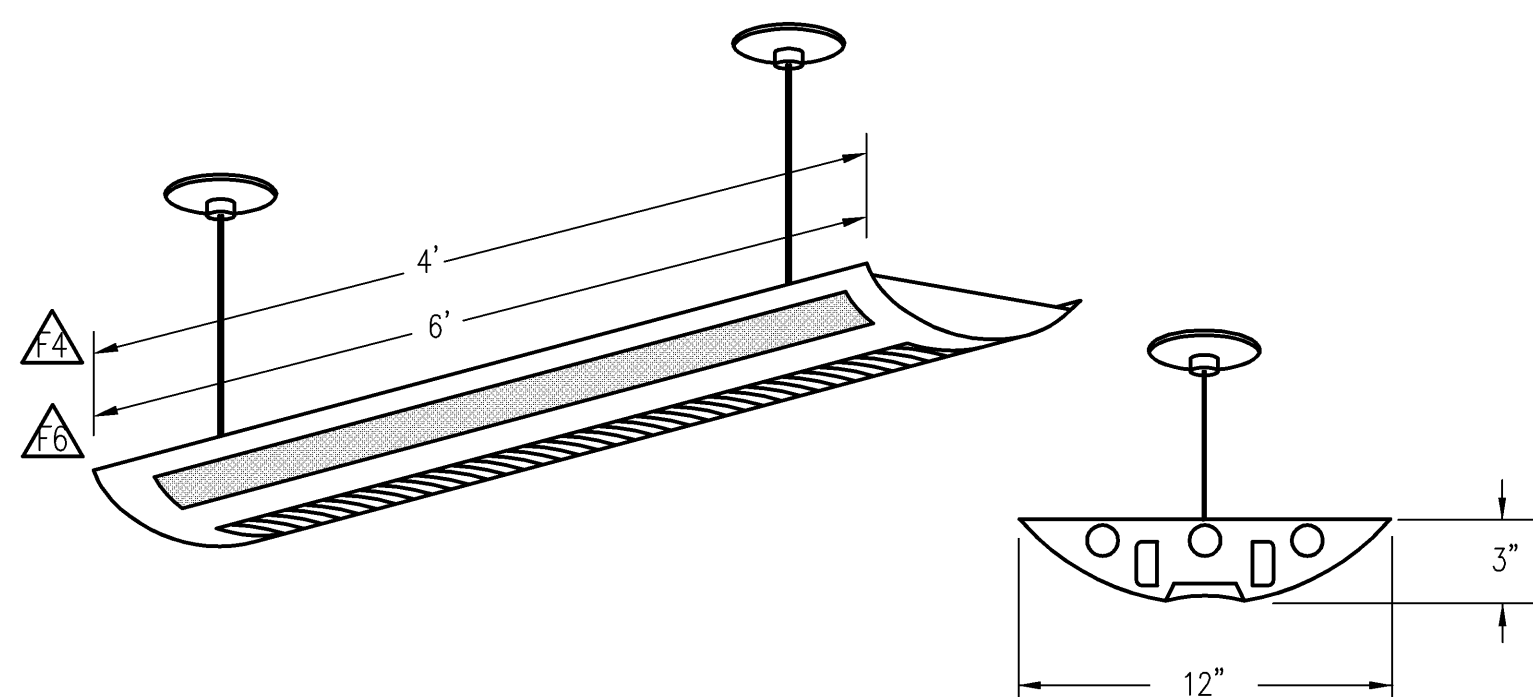
LUMINAIRE REQUIREMENTS

- HOUSING SHALL BE CODE GAUGE STEEL. CHEMICALLY TREATED FOR RUST PREVENTION AND PAINT ADHESION. ENDS SHALL BE SECURED WITH SCREWS OR WELDED.
- HOUSING SHALL BE PAINTED AFTER FABRICATION WITH MINIMUM 85% REFLECTANCE WHITE ENAMEL.
- BALLAST SHALL BE ELECTRONIC WITH THD <20%. HIGH POWER FACTOR ($\geq .95$) RAPID START CLASS P WITH SOUND RATING OF "A". PROVIDE BALLAST WITH "FINGER SAFE" DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.73(G).
- FIXTURE SHALL BE 12" (MINIMUM) WIDE, 4" MAXIMUM DEPTH AND APPROXIMATELY 50" LONG.
- THE LENS SHALL BE IMPACT RESISTANT, 100% CLEAR ACRYLIC, 0.14" THICK WITH A MAXIMUM PRISM PENETRATION DEPTH OF 0.07". THE LENS SHALL BE THE INJECTION MOLDED TYPE TO FORM A SINGLE PIECE, FIVE SIDED BASKET. THE LENS SHALL HAVE A 1/2" HINGE FLANGE, SHALL HINGE ALONG THE ENTIRE LENGTH OF THE FIXTURE (LIFT AND SHIFT TYPE), AND SHALL BE CAPABLE OF HINGING AND LATCHING FROM BOTH SIDES OF THE FIXTURE.

DETAIL BASED ON LITHONIA "SBW" SERIES

TYPE	LAMP #	LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
	2	32W T8	60	120/277	SURFACE CEILING

1'X4' FLUORESCENT WRAPAROUND



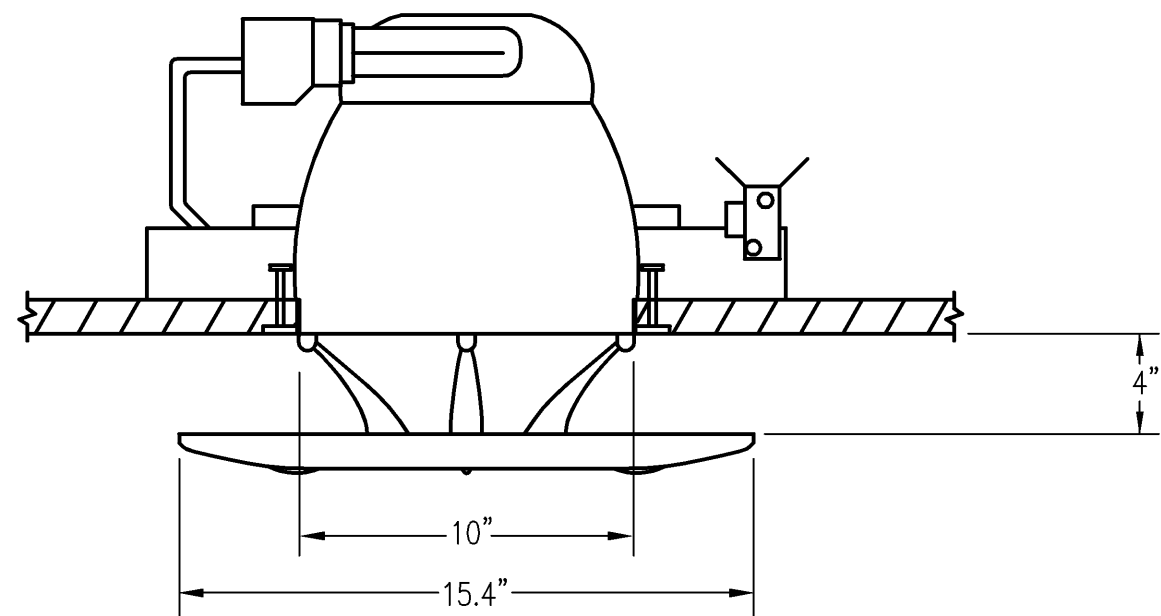
LUMINAIRE REQUIREMENTS

- HOUSING - DIE-FORMED 20 GAUGE STEEL WITH FRAME FINISHED PERFORATION SECTIONS OF .062" DIAMETER STAGGERED HOLES ON .125" CENTERS. WHITE ACRYLIC DIFFUSER PANELS LOCATED BEHIND PERFORATIONS.
- REFLECTOR - DIE-FORMED STEEL.
- BALLAST - ELECTRONIC, HIGH POWER FACTOR, THERMALLY PROTECTED, CLASS P WITH A SOUND RATING OF "A". TOTAL HARMONIC DISTORTION (THD) SHALL BE <20%. PROVIDE BALLAST WITH "FINGER SAFE" DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.73(G).
- SUSPENSION - AIRCRAFT CABLE PENDANTS
- PROVIDES TWO BALLASTS TO SWITCH LAMPS SEPARATELY.
- LISTING - FIXTURE SHALL BE UL LISTED.

DETAIL BASED ON LINEAR LIGHTING "CRESCENT C3123" SERIES

TYPE	LAMP #	LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
	3	32W T8	90	120/277	SUSPENDED, CEILING. MOUNT 8'-0" AFF TO BOTTOM OF FIXTURE
	4	25W T8	95	120/277	

4' AND 6' SUSPENDED LINEAR FLUORESCENT



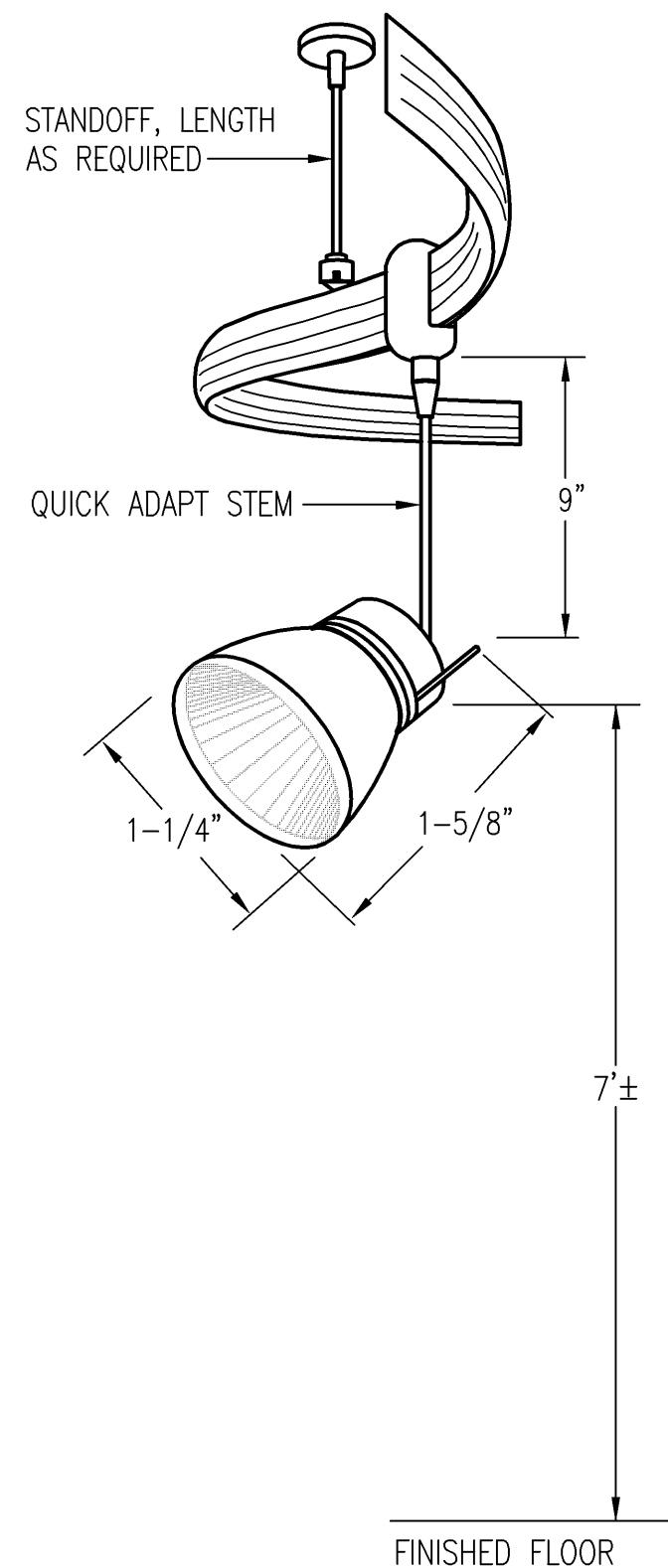
LUMINAIRE REQUIREMENTS

- GALVANIZED STEEL HOUSING, ADJUSTABLE MOUNTING FRAME ASSEMBLY WITH AN INTEGRAL CEILING FLANGE THAT ACCOMMODATES PLASTER, SHEET ROCK OR SUSPENDED TILE CEILINGS. THE MOUNTING ASSEMBLY SHALL HAVE PAN/PLASTER MOUNTING FRAME WITH ADJUSTABLE MOUNTING BRACKETS AND BAR HANGERS THAT HOLD THE REFLECTOR ASSEMBLY SECURELY AND SNUGLY TO THE CEILING. FOR INACCESSIBLE, FIXED CEILINGS, ACCESS TO THE FIXTURE AND ALL COMPONENTS SHALL BE ACCESSIBLE FROM BELOW THE FIXTURE.
- PROVIDE AN INTEGRAL, GALVANIZED STEEL JUNCTION BOX RATED FOR THROUGH-CIRCUIT WIRING AND PROVIDED WITH AN INTERNAL GREEN GROUNDING SCREW.
- PROVIDE A PORCELAIN SOCKET. THE SOCKET ASSEMBLY SHALL SECURELY SNAP TO THE REFLECTOR ASSEMBLY.
- DECOR DISC SHALL BE FINISHED A POLISHED EDGE AND A SANDBLASTED FACE.
- ALUMINUM, SEMI-SPECULAR LOW IRIDESCENT FINISH.
- GLASS RING SHALL BE SUPPORTED BY THREE DECORATIVE FASTENERS, MADE OF DIE-CAST ALLOY, PLACED 120 DEGREES APART.

DETAIL BASED ON BETA-CALCO, "DECORE GL " SERIES

TYPE	LAMP #	LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
	2	26W TT	58	277	RECESSED, CEILING

FLUORESCENT DOWNLIGHT WITH DECO DISK



LUMINAIRE REQUIREMENTS:

- TRACK - FLEXIBLE ALUMINUM HOUSING WITH RIGID STANDOFF SUPPORTS, SIZE AS REQUIRED.
- PROVIDE 600W REMOTE MAGNETIC TRANSFORMER TO BE INSTALLED ABOVE CEILING TILES. SEE PLANS FOR APPROXIMATE LOCATIONS
- SOLID WHITE DOME GLASS SHADE
- MONORAIL TRACK AND HARDWARE FINISH COLOR SHALL BE SATIN NICKEL.
- PROVIDE ALL MOUNTING HARDWARE TO PROVIDE A COMPLETE WARRANTIED INSTALLATION.

DETAIL BASED ON JESCO LIGHTING, "LOW VOLTAGE MONORAIL WITH QUICK ADAPT SPOT TRACK HEAD" SERIES

TYPE	LAMP #	LAMP TYPE	INPUT WATTS	VOLTS	MOUNTING
	1	50W MR16	50	120	SURFACE, CEILING, 7 FT AFF

HALOGEN MONORAIL TRACK SYSTEM